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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/510,334	02/22/00	OHSHIMA	T 2355.11105

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EXAMINER

WHITE, C

ART UNIT

PAPER NUMBER

3715

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

**Office Action Summary**

Application No.

09/510,334

Applicant(s)

OHSHIMA, TOSHIKAZU

Examiner

Carmen D. White

Art Unit

3713

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 31 July 2001.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-58 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-58 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-11, 14-26, 29-38 and 41-58 are rejected under 35 U.S.C. 102(b) as being anticipated by Latypov (5,846,134).

Regarding claims 1-9, 14, 17-24, 29-36, 41-49 and 52-56, Latypov teaches a gaming system that includes a first sensor for detecting a location/posture of a head of a player/user; a second sensor for detecting a location/posture of a hand or arm of a player/user; and a means for analyzing and generating action information of the player/user on the basis of a relative location/posture of the hand or arm with respect to the location/posture of the head (Fig. 1; col. 5, lines 28-43).

Regarding claims 10-11, 25-26, 37-38, 50 and 57, Latypov further teaches a computer for storing values corresponding to the positions of the first and second portions as they relate to each other and generates instruction operands in the virtual gaming environment that correspond to the player's movement (col. 5, lines 8-13 and lines 35-40; Fig. 1, #1, #12).

Regarding claims 15-16, 51 and 58, Latypov further teaches a head-mounted display for displaying the image of a game scene (col. 5, lines 13-19)

Claims 1-11, 13-26, 28-38 and 40-58 are rejected under 35 U.S.C. 102(e) as being anticipated by Ahdoot (5,913,727).

Regarding claims 1-9, 14, 17-24, 29-36, 41-49 and 52-56, Ahdoot teaches a gaming system that includes a first sensor for detecting a location/posture of a head of a player; a second sensor for detecting a location/posture of a hand or arm; and a means for estimating an action of the player on the basis of a relative location/posture of the hand or arm with respect to the location/posture of the head (Fig. 1, #30, #34, #48, #46, #47, #60; col. 7, lines 1-35).

Regarding claims 10-11, 25-26, 37-38, 50 and 57, Ahdoot further teaches a computer for storing values corresponding to the positions of the first and second portions as they relate to each other and generates instruction operands in the virtual gaming environment that correspond to the player's movement (Fig. 2, #50A; abstract).

Regarding claims 13, 28 and 40, Ahdoot further teaches the use of a glove (that covers the fingers of the player) that contains sensors (Fig. 1, #46).

Regarding claims 15-16, 51 and 58, Ahdoot further teaches a head-mounted display for displaying the image of a game scene (Fig. 1, #60; col. 5, lines 55-57).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12-13, 27-28, and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Latypov.

Regarding claims 13, 28, 40, Latypov teaches all the limitations of the claims as discussed above. While Latypov teaches a plurality of sensors located on the hand, head, body, feet, etc. (col. 5, lines 35-43). Latypov lacks disclosing the specific sensing of a bent angle of a finger. It would have been obvious to a person of ordinary skill in the art to include the sensing of the bending of a finger in the hand sensors of Latypov to make the motion detection more accurate. Thus making the virtual gaming experience more authentic.

Regarding claims 12, 27 and 39, Latypov teaches all the limitations of the claims as discussed above. While Latypov teaches a plurality of sensors being located on the body of the player to sense movement of the player's motion and the connection of these sensors to a computer, which generates the commands and displays output to the player, Latypov is silent on the feature of sensing when the player's line of sight is pointing to the hand and outputting a user instruction for operation guidance. However, it is well known in computer gaming systems to generate help commands in response to player inputs in order to assist the player during the game so that the player does not waste his or her time/and or money while playing the game. This feature is merely a matter of programming the software of the game to produce a help command in response to sensor output. Thus, it would have been obvious to a person of ordinary skill in the art at the time of the invention to include this feature in Latypov.

Claims 12, 27, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahdoot.

Regarding claims 12, 27 and 39, Ahdoot teaches all the limitations of the claims as discussed above. While Ahdoot teaches a plurality of sensors being located on the body of the player to sense movement of the player's motion and the connection of these sensors to a computer, which generates the commands and displays output to the player, Ahdoot is silent on the feature of sensing when the player's line of sight is pointing to the hand and outputting a user instruction for operation guidance. However, it is well known in computer gaming systems to generate help commands in response to player inputs in order to assist the player during the game so that the player does not waste his or her time/and or money while playing the game. This feature is merely a matter of programming the software of the game to produce a help command in response to sensor output. Thus, it would have been obvious to a person of ordinary skill in the art at the time of the invention to include this feature in Ahdoot.

***Examiner's Response to Applicant's Remarks***

Applicant argues that the feature of a command corresponding to a user's action being determined based on a change in the relative positions between a plurality of portions of the user is not taught by the prior art of record (Ahdoot or Latypov). However, the examiner disagrees. Ahdoot clearly teaches a virtual reality gaming system in which the player/user has sensors on the head and hand/arm portion of the body, as well as various other areas of the body (Fig. 1, #30, #34, #48, #46, #47, #60; col. 7, lines 1-35). The sensors on the various parts of the body of the user of Ahdoot

determine whether the player is kicking, punching, etc. (col. 7, lines 31-32). The movements of the player/user of Ahdoot are used to determine the character's movement/actions within the virtual gaming environment. Similarly, Latypov teaches a plurality of sensors on various body portions of a player/user (last 4 lines of abstract; Fig. 1, #13, #14, #15, #16; col. 5, lines 28-43).

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

### ***USPTO Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carmen White whose telephone number is 703-308-5275. The examiner can normally be reached on Monday through Friday, 8:30 AM to 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin-Wallace can be reached on 703-308-4119. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7768 for regular communications and 703-305-3579 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1078.



C. White  
Patent Examiner



**MICHAEL O'NEILL**  
**PRIMARY EXAMINER**